"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNOV, S.; PENEV, P.D.; DANEV, Kh.P.; VUTKOV, L.P.; KATOROSHEV, T.Khr.

Treatment of chronic gingivitis and amphodnontosis with PAS and RS.
Stomatologiia, Sofia no.2:17-21 1955.

(GINGIVITIS, therapy,
pectins)
(PERIODONTIUM, diseases,
ther., pectins)
(PECTINS, therapeutic use,
gingivitis & periodontitis)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYA, M.I., dots.

Inheritance of color and shape of roots in interbred sugar beets. (MIRA 11:5)
Nauk. zap. ChDPI 11:249-256 '57.
(Roots (Botany)) (Sugar beets)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYA, M. I.

Beets and Beet Sugar

Characteristics of hybrids of the sugar and fodder beet. Korm baza 2 No. 12, . . .

9. Monthly List of Russian Accessions, Library of Congress, May 1952 ____ 1953, Uncl.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYA, S.P., kand.med.nauk; BOKAREVA, P.S.

Report on the work of the Voroshilovgrad Ophthalmologic Society for 1957. Oft.zhur. 13 no.7:445-446 '58. (MIRA 12:1)

1. Predsedatel' pravleniya Voroshilovgradskogo oftal'mologicheskogo obshchestva glaznykh vrachey (for Petrunya). 2. Sekretar' pravleniya Voroshilovgradskogo oftal'nologicheskogo obshchestva glaznykh vrachey (for Bokareva).
(VOROSHILOVGRAD--OPHTHALMOLOGIC SOCIETY)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYA, S.P., kand.med.nauk; SKRIPKA, V.K., vrach

Tissue therapy in therapeutic institutions of Luganak Province. Oft.zhur. 13 no.8:486-489 '58. (MIRA 12:2)
(LUGANSK PROVINCE--TISSUE EXTRACTS)
(EYE--DISEASES AND DEFECTS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

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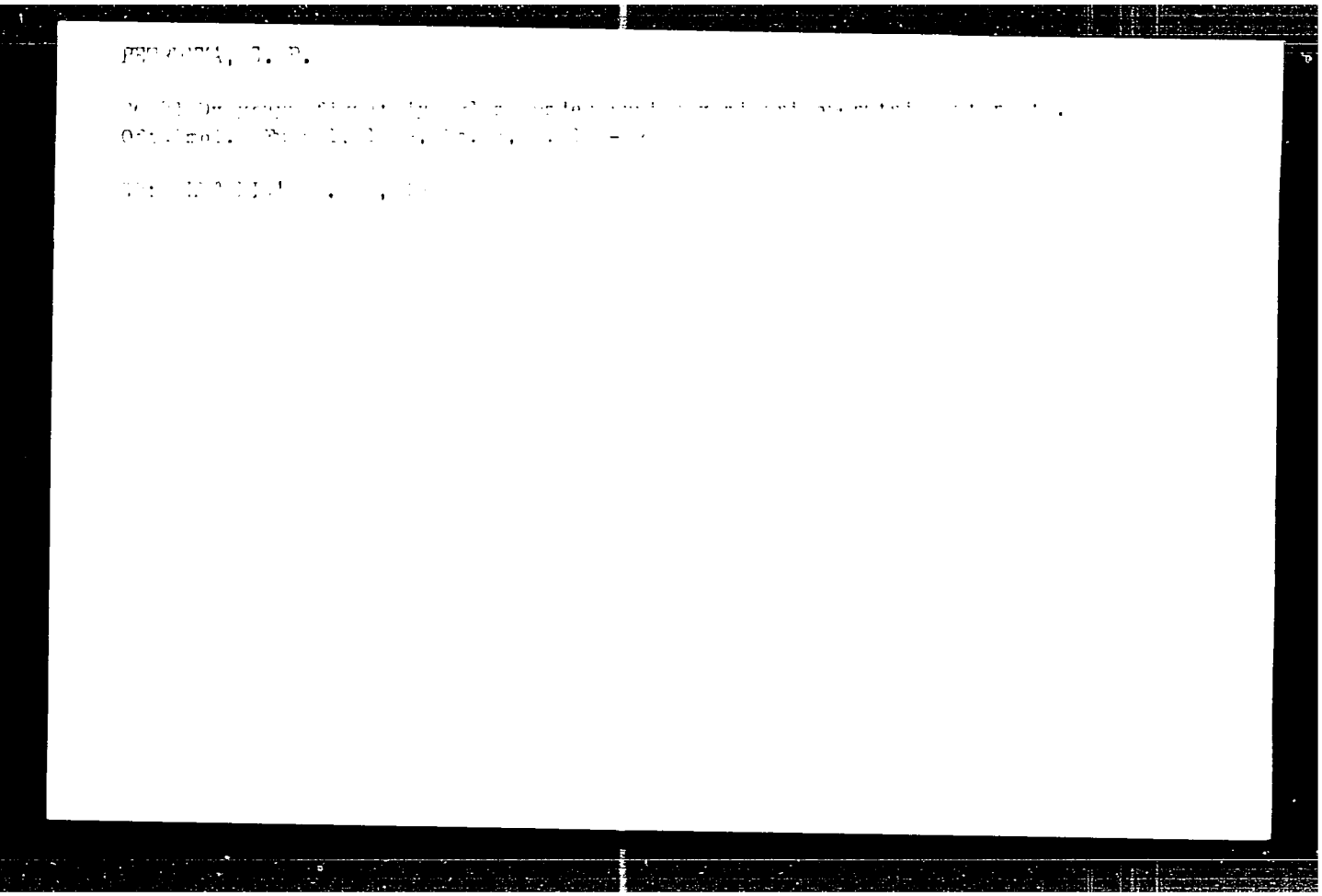

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYA, S.P.

Shift of the transplant following partial open transplantation of the cornea. Vest. oft., Moskva 32 no. 1:11-21 Jan-Feb 1953. (CLML 24:1)

1. Candidate Medical Sciences. 2. Of the Eye Division of Voroshilovgrad Oblast Hospital.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

1. [redacted], A. P.

2. [redacted] (oc)

4. Transplantation (Physiology)

7. On the displacement of a transplant in partial penetrating keratoplasty. Vest. oft., 36, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYA, V.; POZDNOV, M., redaktor; YAKOVLEV, Ye., tekhnicheskiy redaktor.

[Engineer F.Kovalev's method in a Moscow Province mine] Metod inzhenera F.Kovaleva na podmoskovnoi shakhte [Moskva], Moskovskii rabochii, 1952. 39 p. (MLRA 8:1)

1. Nachal'nik 22-y shakhty tresta "Stalinogorskugol' " (for Petrunya)
(Moscow Province--Coal mines and mining)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYAK, V.; DEKHTYAREVA, N.

Experience in the processing of unrefined cane sugar in the Odessa Sugar Refinery. Sakh. prom. 37 no.11:36-39 N '63. (MIRA 16:11)

1. Odesskiy sakharnyy zavod (for Petrunyak). 2. Ukrainskiy nauchno-issledovatel'skiy institut sakharnoy promyshlennosti (for Dekhtyareva).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYAK, V. (Rovno).

District inspector Petr [illegible]. Pozh. delo 3 no. [illegible].
(Rovno Province--Fire prevention--Inspection) (Fire [illegible])

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUNYAN, S.P., kand.med.nauk

Concerning the articles of Doctor of Medical Science B.S. Brodskii and other authors on the prevention of symblepharon in eye burns. Oft.zhur. 14 no.7:413-415 '59. (MIRA 13:4)

1. Iz Luganskoy oblastnoy bol'nitsy.
(EYE--WOUNDS AND INJURIES)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

S/081/62/000/013/081/081
B166/B144

AUTHORS: Matei, Ilie, Cocea, Elena, Caraculacu, Adrian, Petruş, Maria

TITLE: Polyurethane rubber based on 4,4'-diisocyanate of dibenzene (informative note)

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 13, 1962, 656, abstract 13B366 (Studii şi cercetări ştiint. Acad. RPR Fil. Iaşi. Chim., v. 11, no. 1, 1960, 379)

TEXT: The mechanism whereby 4,4'-diisocyanate of dibenzene is formed and the tests needed to obtain polyurethane rubbers from it have already been published (see RZhKhim, 1961, 10Zh110, 10Zh149). Now the same diisocyanate has been used to make polyurethane foams with various properties.
[Abstracter's note: Complete translation.]

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

CARACULACU, A.; MARCULESCU, Cr.; PETRUS, A.; COCEA, E.; MATEI, Ilie, prof.

Contributions to the mechanism of the oxidation of p-nitrotoluene. Studii chemie Iasi 10 no.2:247-260 '59. (EEAI 10.1)

1. Academia Republicii Populare Romine, Filiala Iasi; Institutul de Chimie "Petru Poni." 2. Membru correspondent al Academiei Republicii Populare Romine. Redactor responsabil, Studii si cercetari stiintifice, Chimie (for Matei)
(Nitrotoluene)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

MATEI, Ilie; COCEA, [illegible]; [illegible], Alla

Syntheses of polyurethan elastomers of initial and intermediate products. Pt. 2. Studii chim Iasi 14 no.1:113-122 '63.

1. Academia R.P.R. Filiala Iasi, Institutul de chimie "P.Poni", Sectia de chimie organica. [illegible]. Membru corespondent al Academiei R.P.R. (for Matei).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

MATEI,I.; PETRUS,Alla.

Some results in obtaining polyrethan rubbers. Rev chimie Min. petr 14 no.11/12:632-638 N-D'63.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

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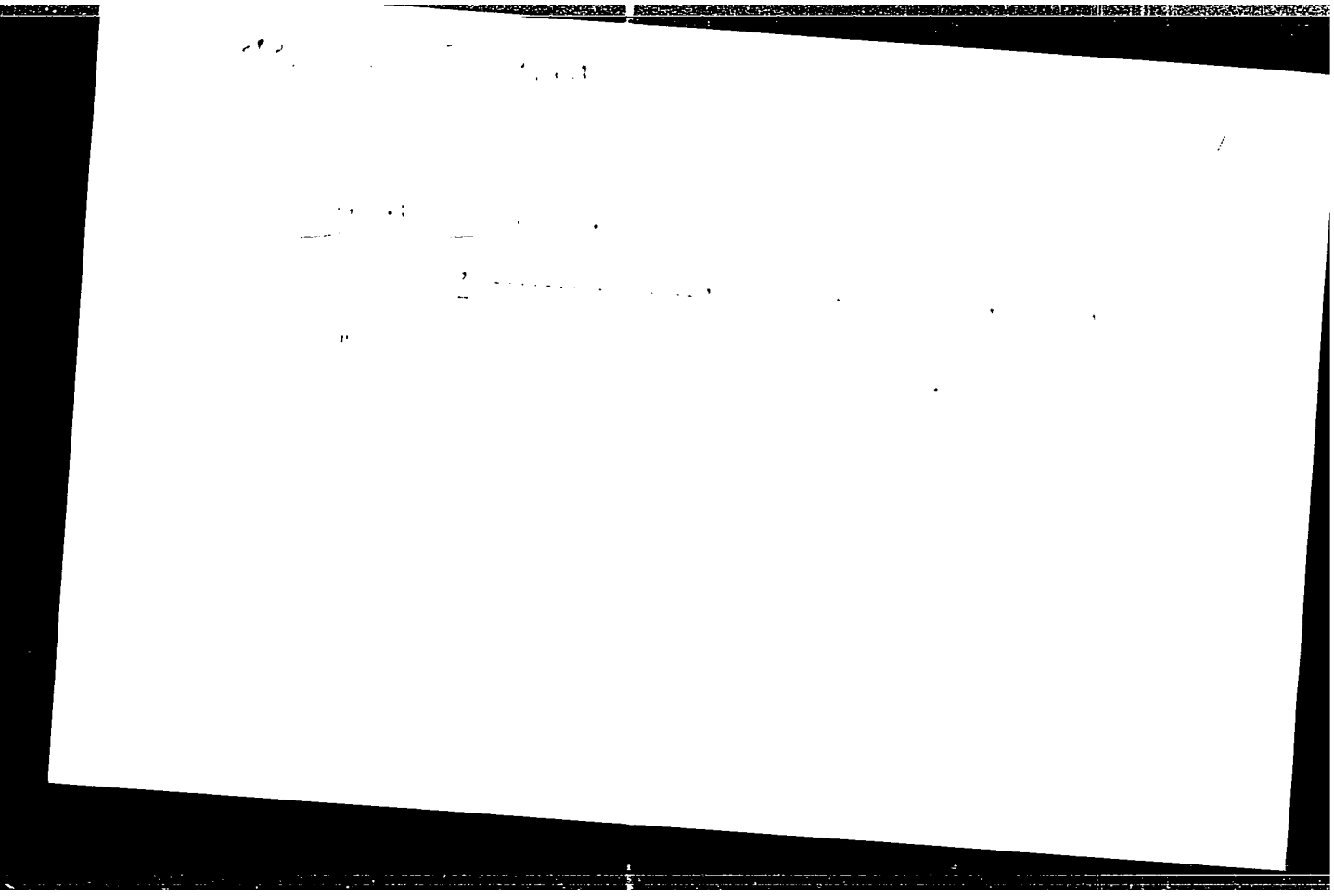

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

MATEI, Ilie; COCEA, Elena [deceased]; PETRUS, Aila

Syntheses of polyurethane elastomers, initial and intermediary products. Pts. 5-6. Studii chim Iasi 13 no.2:231-251 '62.

1. Membru corespondent al Academiei R.P.R. (for Matei).
2. Academia R.P.R. Filiala Iasi, Institutul de Chimie "Petru Poni" Iasi, Sectia de chimie organica.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

ACCESSION NR: AP4016000 R/0003/63/014/11/0632/0638

AUTHOR: Matei, I.; Petrus, Alla

TITLE: Some results in the preparation of polyurethane rubbers

SOURCE: Revista de chimie, v. 14, no. 11-12, 1963, 632-638

TOPIC TAGS: polyurethane, rubber, polymer, elastomer, isocyanate, polyester, polyether, tire material, diisocyanate, fosgene, 2,4-toluenediisocyanate, 2,6-toluenediisocyanate, 4,4'-diphenylmethanediisocyanate, othyleneoxide, cross-linking, adipic acid, ethyleneglycol, propyleneglycol, kinetic study, molecular weight measurement, 4,4'-diaminodibenzyl, 4,4'-dinitrodibenzyl 4,4'-dibenzyldiisocyanate

ABSTRACT: Polyurethane polymers have found a wide variety of application due to their remarkable properties. Their production has increased from 26,700 tons in 1960 to 52,000 tons in 1961 and are estimated 453,000 tons/year will be reached by 1970. Polyurethane rubbers are substantially superior to other hydrocarbon polymers or copolymers used as tire materials. Thus hydrocarbon tires have an average performance of 80,000 km., whereas polyurethane tires surpass easily 300,000 km. on the road. Polyurethane elastomers are prepared from

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polyisocyanates and hydroxyl containing polymers such as polyesters, polyethers or polyesteramides. Polyfunctional isocyanates are prepared from amine hydrochlorides in reaction with fosgene above 100C in inert solvents. The following diisocyanates are used mostly for rubbers: mixtures of 2,4- and 2,6-toluenediisocyanate (desmodur-T), 4,4'-diphenylmethanediisocyanate (desmodur-44), 1,5-naphthalenediisocyanate (desmodur-15) and 4,4'-dibenzyldiisocyanate. The polyesters, polyethers, polythioethers or polyacetals used in rubber preparation with diisocyanates have two or more terminal hydroxyl groups, a molecular weight between 1,000 and 5,000 and are dehydrated to approximately 0.01% water. Polyesters with hydroxyl end-groups are usually obtained by polymerization of epoxides such as ethyleneoxide and propyleneoxide or tetrahydrofurane. The preparation of polyurethane rubbers takes place in three steps. The first step is performed industrially in mixers, under inert atmosphere at 100-120C when an excess of diisocyanate reacts with a linear polyester. In the second step the polyesterurethane reacts with small amounts of crosslinking agents (water, diamines or glycols) such as to leave some of the isocyanate groups unreacted. The third step is not technologically separated from the second and is the thermal vulcanisation, when the remaining isocyanate groups react with the urea formed on addition of water, diamine or glycol. The product is a

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ACCESSION NR: AP4016000

polyurethane elastomer, crosslinked, insoluble and with superior physico-mechanical properties. Research in the polyurethanes field in our country has first started at the "Petru Poni" Chemical Institute in Iasi, affiliated with the Rumanian Academy. The research work has been directed toward the preparation of a rubber with new structure and superior quality as well as kinetic and mechanism studies regarding the polyaddition reaction, the diisocyanate reactivity as function of their chemical structure, etc. Theoretical and economical reasons have directed us toward the use of 4,4'-dibenzyldiisocyanate, which is prepared from technical grade p-nitrotuluene by oxidation to 4,4'-dinitrodibenzyl, reduced then to 4,4'-diaminodibenzyl which in turn is reacted with fosgene to 4,4'-dibenzyldiisocyanate. The laboratory procedure gives a 88% yield in pure product, and the overall reaction time does not exceed 100 minutes. This diisocyanate has a very favorable structure for the synthesis of high quality polyurethane elastomers. The stress resistance of the rubber is 305 kg/cm^2, elongation 860% and remanent deformation only 17%. The mechanism studies on the polyaddition reaction (polyesters added to diisocyanates) showed that the carbonyl group in the isocyanate is polarized to form a carbonium ion, to which the alcohol is added, followed by the migration of the mobile hydrogen atom from oxygen to nitrogen, resulting in a tautomeric urethane. When difunctional isocyanates and alcohols are used, long chains are formed

Card 3/5

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ACCESSION NR: AP4016000

analogous to a copolymerization process. The rate of the polyaddition reaction can be significantly increased by addition of catalytic amounts of tertiary amines. Kinetic studies in molten mixtures of 4,4'-dibenzyldiisocyanate and polyesters (2,200-2,300 molecular weight, 70% adipic acid - ethyleneglycol polyester and 30% adipic acid--1,2 propyleneglycol polyester) have been carried out, using variable amounts of excess diisocyanate, under dry nitrogen atmosphere, at 100±1C. The extent reaction was controlled by analysis of isocyanate groups and molecular weight determinations. The data are interpreted in terms of mobility, viscosity, concentrations and chain length. A number of observations are derived relating the polyaddition process and the product to the variable factors such as concentrations, ratios, time, temperature. Thus, the first step of the reaction does not exceed two hours. Changes in the ratio of diisocyanate to polyester lead to different molecular weights for the polyurethane obtained in the first step which in turn controls the degree of cross-linking in the following two steps. A wide variety of rubber products having different physical and mechanical properties can be obtained from the same diisocyanate and polyester by changing their ratio. Based on the results obtained at "Petru Poni" Institute, the Ministry of Petroleum and Chemical Industry has decided to expand this research on an industrial scale at

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

ACCESSION NR: AP4016000

Borzesti Chemical Complex.

ASSOCIATION: none

SUBMITTED: 00	DATE ACQ: 03Feb64	ENCL: 00
SUB CODE: CH	NO REF SOV: 005	OTHER: 019

Card 5/5

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

COCEA, El. [deceased]; STOICESCU-CRIVAT, L.; PETRUS, A.; MANDAJESCU, L. MATEI, I.

Aryl aliphatic diisocyanates. Studii chim Iasi 14 no. 2:213-219 '63.

1. Section of Organic Chemistry, "Petru Poni" Institute of Chemistry and Physics, Rumanian Academy, Iasi Branch.
2. Corresponding Member of the Rumanian Academy (for Matei).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

MATEI, Ilie, prof.; COCEA, Elena; CARACULACU, Adrian; PETRUS, Alla

Some theoretical considerations on the polyurethanic rubber based on 4,4' -dibenzyldiisocyanate. Studii chim Iasi 13 no.1:109-113 '62.

1. Membru corespondent al Academiei R.P.R., membru al Comitetului de redactie si redactor responsabil, "Studii si cercetari stiintifice, Chimie" - Filiala Iasi - (for Matei).

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

MATEI, Ilie, prof.; COCEA, Elena; CARACULACU, Adrian; PETRUS, Alla

Polyurethanic caoutchouc on the basis of 4,4-dibenzyl diizocyanate. Informative note. Studii chim Iasi 11 no.2:379 '60.

1. Academia Republicii Populare Romine, Filiala Iasi, Institutul de chimie "Petru Poni," Sectia chimie organica. 2. Membru corespondent al Academiei Republicii Populare Romine; Comitetul de redactie, "Studii si cercetari stiintifice, chimie" (Academia Republicii Populare Romine, Filiala Iasi), redactor responsabil (for Matei).

(Rubber) (Diisocyanates)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

COCEA, Elena; CARACULACU, A.; MARCULESCU, Cristineta; PETRUS, Alla; MATEI, Ilie, prof.

Synthesis of the 4,4-dibenzyl diisocyanate. Studii chemie Iasi 10 no.2:261-269 '59. (EEAI 10:1)

1. Academia Republicii Populare Romine, Filiala Iasi; Institutul de Chimie "Petru Poni." 2. Membru correspondent at Academiei Republicii Populare Romine. Redactor responsabil, Studii si cervetari stiintifice Chimie (for Matei)
(Benzyl group) (Diisocyanates)

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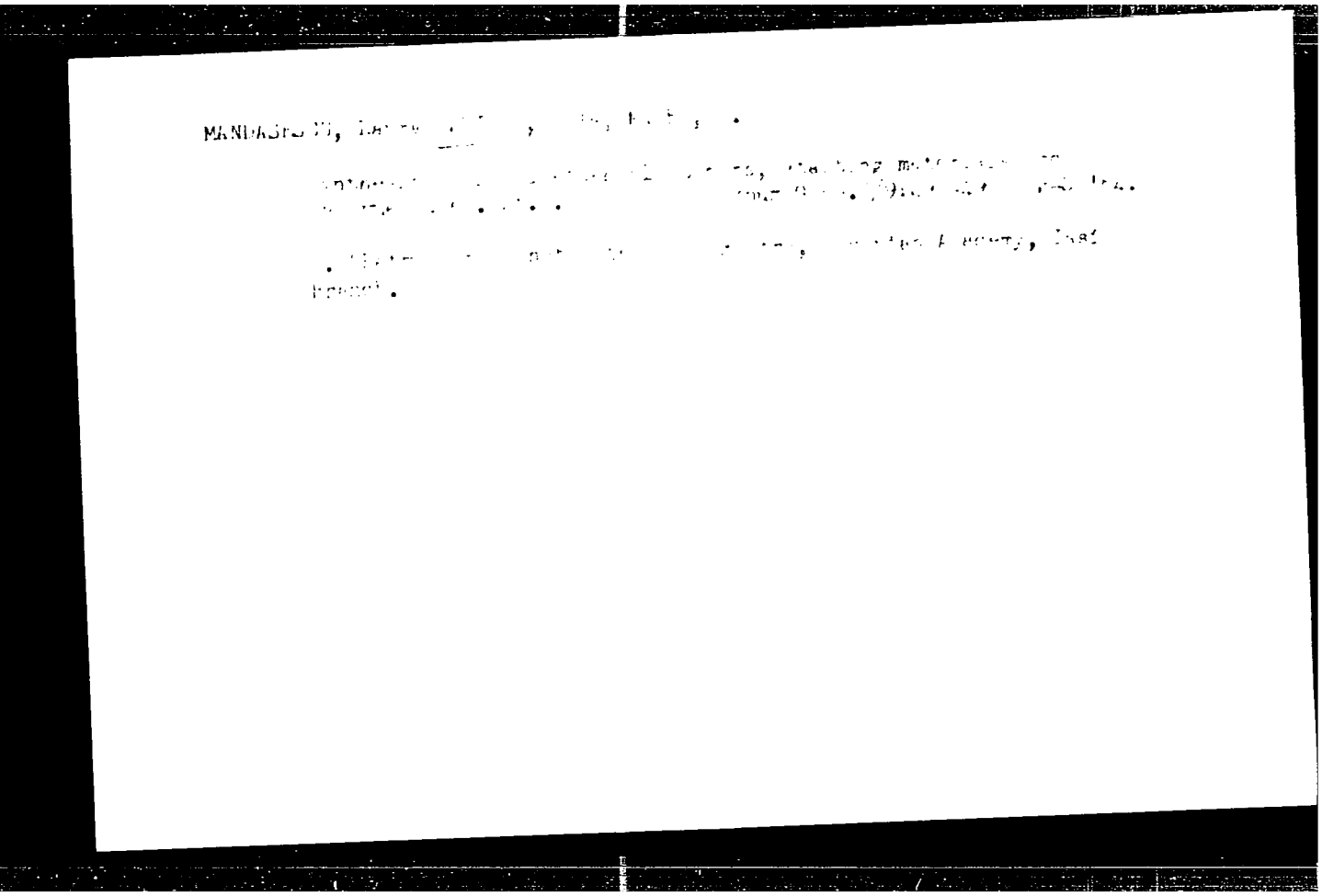

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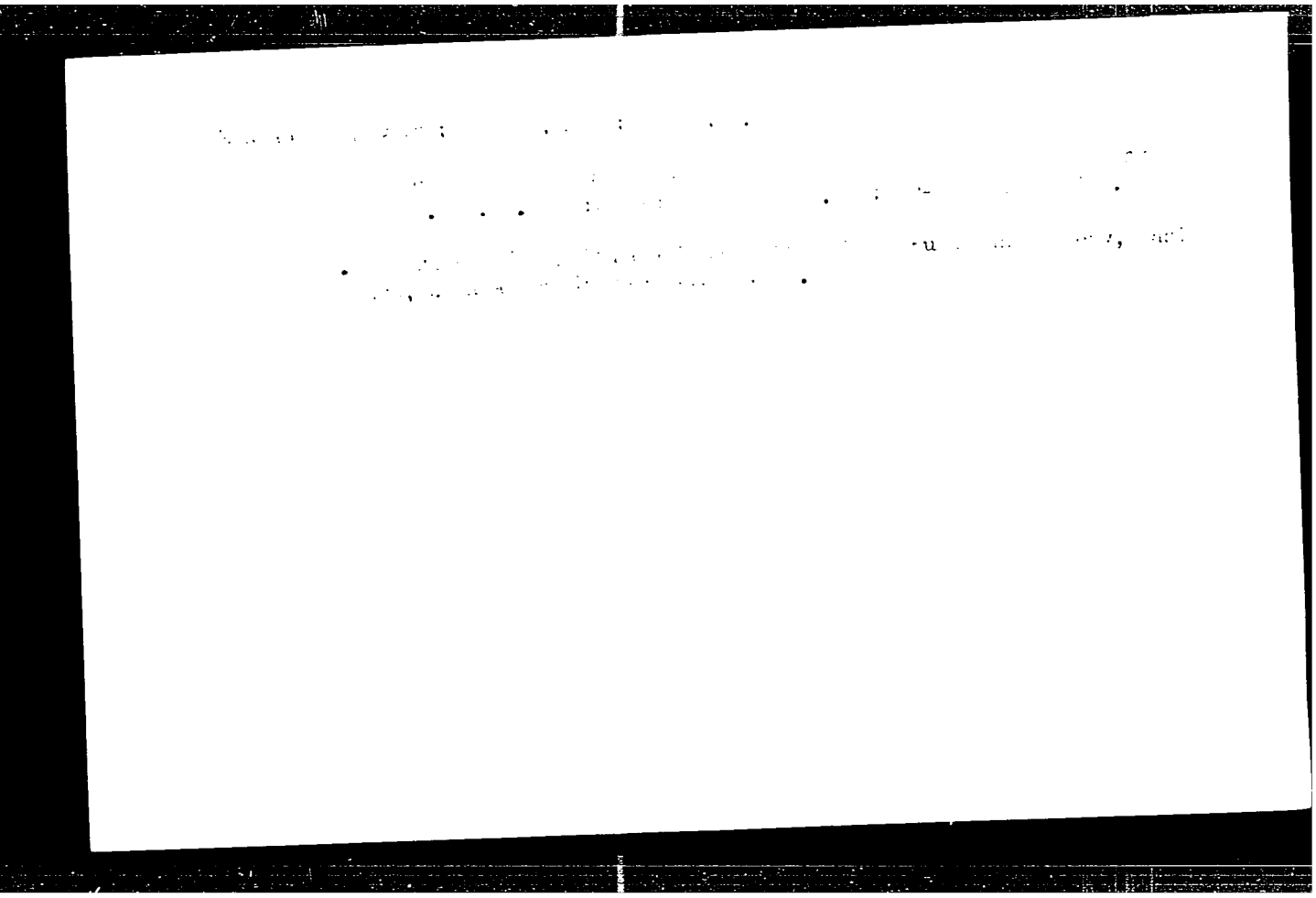
"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8



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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

ISACESCU, Dimitrie A , GAVAT, Ion, STOICESCU, Calin; VASS, Cecilia, PETRUS, Ileana

Studies on furfural. Pt.2. Rev chimie Roum 15 no 3:219-231 Mr '65.

1, Institute of Physical Chemistry, Rumanian Academy, Bucharest
Submitted June 23, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

ISACESCU, Dimitrie A.; IONESCU, Ion V.; PETRUS, Ileana

Studies in the field of furfurole. XIII. On the possibilities of reticulating the furfurole-acetone resins with resorcinol, pyrogallol, and formaldehyde. Studii cerc chim 8 no.2:201-211 '60. (EEAI 10:2)

1. Centrul de cercetari chimice al Academiei R.P.R. 2. Membru corespondent al Academiei R.P.R.; Comitetul de readctie, Studii si cercetari de chimie (for Isacescu)
(Furaldehyde) (Acetone) (Gums and resins, Synthetic)
(Resorcinol) (Pyrogallol) (Catalysts)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

ISACESCU, Dimitrie A.; GAVAT, Ion; STOICESCU, Calin; VASS, Cecilia; PETRIS, Ileana

Studies in the thermal field. Pt.26. Studii cerc chim 14 no.3:197-209 Mr '66.

1. Physical Chemistry Research Center, Rumanian Academy, 18 Dumbrava Rosie St., Bucharest. Submitted June 23, 1964.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

ISACESCU, Dimitrie A.; IONESCU, I.; PETRUS, Ileana

Studies in the field of furfurole. XI. Resins of furfurol and acetone. XII. On the possibilities of reticulating the furfurole-acetone resins with the aid of formaldehyde and phenol. Studii cerc chim 8 no.1: 29-65 '60. (EEAI 9:8)

1. Membru correspondent al Academiei R.P.R. (for Isacescu). 2. Centrul de cercetari chimice al Academiei R.P.R., Bucuresti.
(Gums and resins, Synthetic) (Acetone) (Furaldehyde) (Formaldehyde) (Phenol)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUS, Mario, inz.

Ninety years of the railroad vehicle repair plant Praha-Bubny.
Zel dop tech 11 no.9:268 '63.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

616.931(R):576.852.23

RUMANIA

SARAGEA, Alice, Dr, MAXIMESCU, Paula, Dr, MEITERT, Eugenia, Dr, STUPARU, Ileana, Technician, VIERU, Elena, Technician, PETRUS, Valeria, Technician, and BALTEANU, Camelia, Technician, Work performed at the "Dr I. Cantacuzino" Institute (Institutul "Dr I. Cantacuzino").

"Incidence and Geographical Distribution of Phage Types of Corynebacterium diphtheriae in the Dynamics of the Epidemic Process of Diphtheria in the Socialist Republic of Rumania."

Bucharest, Microbiologia, Parazitologia, Epidemiologia, Vol 11, No 4, Jul-Aug 66, pp 351-362.

Abstract [Authors' English summary modified]: The authors analyzed the biological characteristics of approximately 14,000 strains of diphtheria bacteria isolated over a period of 10 years. Careful study of the pathogenetic organism, in particular through phage typing, proved useful in fighting epidemic outbreaks. On the basis of the study, the authors also elaborated a map of the geographic distribution of the lysotypes and their dynamics over the ten-year period.

Includes 7 tables, one map and 16 references, all Rumanian. -- Manuscript submitted 2 April 1966.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PODIL'CHAK, M.D.; PETRUS, V.S.

Antihyaluronidase activity of blood serum in Brown-Pearce carcinoma. Vrach.delo supplement '57:91-92 (MIRA 11:3)

1. Kafedra mikrobiologii (zav.-dots. M.M.Muzyka) L'vovskogo meditsinskogo instituta.
(HYALURONIDASE) (CANCER)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUS, V.S.; KUSHNIROVA, O.P.; KOSATKINA, A.P.

Study of the bactericidal properties of dry distillation products of lignite mined in the Transcarpatian Province. Zhur.mikrobiol. epid. i immun. 28 no.8:70-72 Ag '57. (MIRA 11:2)

1. Iz kafedry mikrobiologii Uzhgorodskogo gosudarstvennogo universiteta.

(ANTISEPTICS,
lignite dry distillation prod. (Rus))

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

MIKHAILOVSKIY, S.V.; CHERNAYA, L.A.; BARILYAK, R.A.; PETRUS, V.S.

Possible utilization of cutaneous reactions in diagnosis of scleroma of the respiratory tract. Vest. otorinolar., Moskva 14 no. 4: 87 July-Aug. 1952. (CIML 22:5)

1. Professor for Mikhaylovskiy and Chernaya; Docent for Barilyak; Assistant for Petrus. 2. Of the Clinic for Diseases of the Ear, Throat, and Nose (Director -- Honored Worker in Science Bashkir ASSR Prof. S. V. Mikhaylovskiy) and of the Department of Microbiology (Head -- Docent M. M. Muzyka), L'vov Medical Institute.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

[illegible], [illegible]

"The effect of cell-free filtrate of Braun-Pierce [illegible] erythrocytes," [illegible], [illegible]

In test tubes, the action of, [illegible] from a Braun-Pierce cancer [illegible] of suspension of erythrocytes from test animals (rabbits, [illegible], mice, sheep, roosters, [illegible]. The test tubes were kept in a thermostat at 37°C. After 4 hours, there was partial lysis of erythrocytes of rabbits; after 24 hours, complete hemolysis; and after 72 hours, partial lysis of rabbit erythrocytes. The filtrate did not dissolve the erythrocytes of guinea pigs, sheep, and roosters. There was no hemolysis in the controls in which muscle filtrate from healthy rabbits was used. Coalescence, addition of Braun-Pierce cancer filtrate to fresh human blood serum or dilute [illegible], inhibited the process of hemolysis in the filtrate. [illegible], [illegible]

[illegible]

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUS, V.S.

PODIL'CHAK, M.D.; PETRUS, V.S.

Invasion growth of some experimental tumors. Medych. zhur. 23 no.2: 50-53 '53. (MLRA 8:2)

1. L'vivs'kiy medichniy institut.
(TUMORS)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUS, V. S.

"The Sensitization Properties of the Volkovich-Frish Bacillus in an Experiment on Guinea Pigs." Cand Med Sci, L'vov State Medical Inst, Uzhgorod, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug. 55 - Survey of Scientific and Techincal Dissertation Defended at USSR Higher Educational Institutions.
(14)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

KOVTUNOICH, G.P.; CHEVNAYA, L.A.; PETRUS', V.S.

Pathogenesis of tetanus. Zhur.mikrobiol.epid.i immun. no.5:32-34 My '55. (MLRA 8:7)

1. Iz kliniki obshchey khirurgii L'vovskogo meditsinskogo instituta i laboratorii ranevykh infektsii L'vovskogo instituta epidemiologii, mikrobiologii i gigiyeny.
(TETANUS, etiology and pathogenesis)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

DEREVICI, A.; SARATEANU, D.; BRONITKI, A.; PETRESCU, A.; ROTHSCHILD, L.; DRAGANESCU, N.; SATMARI, C.; PETRUSCA, J.; STANCU, A.; TIMERMAN, A.; PIRONCOF, M.

Dynamics of serum antibodies against influenza in children and adults vaccinated with autochthonous vaccine; role of non-specific excitants. Stud. cercet. inframicrobiol., Bucur. 6 no.3-4:429-441 July-Dec. 1955.

(INFLUENZA, prev. & control
vacc. with autochthonous vaccine, behavior of serum antibodies, in child. & adults)

(ANTIGENS AND ANTIBODIES
influenza antibody form. after various methods of vacc. with autochthonous vaccine, in child. & adults)

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

RUMANIA

COPELOVICI, Yolanda, PETRUSCA, J., STRATI, I. and LANDESMAN, V. of the Institute of Inframicrobiology of the RPR Academy (Institutul de Inframicrobiologie al Academiei RPR).

"Investigations on a Mumps Epidemic in a Community Vaccinated Against Mumps."

Bucharest, Studii si Cercetari de Inframicrobiologie, Vol 14, No 5, 1963, pp 641-648.

Abstract [Authors' English summary modified]: Vaccination 8 months before the outbreak of a mumps epidemic gave a large degree of protection to the community, and vaccination in a focus 12 days before the outbreak of the first cases strongly modified the course of the epidemic. The proportion of cases among the vaccinated population was 0.63%, among the non-vaccinated group 8.6%. Eight months after vaccination the hemagglutination-inhibition antibody titer was still greater than 1/32 in 34.9% of the cases. Lyophilized antimumps vaccine stored for 6 months maintained its immunogenic value.

Includes 4 tables and 9 references, of which 4 Western and 5 Rumanian.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

RUMANIA

PETRUSCA, J., Colonel, Medical Corps; BOIU, A., Colonel, Medical Corps; and IANCULESCU, V., Lieutenant-Colonel, Medical Corps.

"Current Aspects of Epidemiology in Viral Hepatitis"

Bucharest, Revista Sanitara Militara, Vol 16, Special No., 1965; pp 308-319

Abstract: Comprehensive data about the epidemiology of hepatitis in Rumania and in Rumanian Armed Forces in particular revealed a number of paradoxical events and trends regarding the unexpected exacerbation in least likely units; seasonal and geographic changes are reported and discussed in the context of world-wide literature data, but few, if any, reliable conclusions can be reached as yet, indicating the continued need for very careful monitoring of events.

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APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

COPELOVICI, Y.; GRUIA, M.; CIOBANESCU, M.; in colaborare cu PETRUSCA, J.; BORS, A.; EFANOV, A.; HONDOR, C.

Investigations of the immunogenic value of a mumps vaccine prepared with autochthonous strains. Stud. cercet. inframicrobiol. 13 no.4: 473-480 '62.
(MUMPS VIRUS) (VACCINES) (IMMUNIZATION)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

VISAN, A.; SATMARI, C.; PETRUSCA, J.; STANCU, Al.; BRONITKI, A.; ROTSCHILD, L.; PIRONCOF, M.; GUNA, S.

Effectiveness of anti-influenza vaccinations. Stud. cercet. infra-microbiol., Bucur. 8 no.1:57-69 1957.

(INFLUENZA, prevention & control
vacc., effectiveness of German polyvalent vaccine & Rumanian monovalent vaccine)
(VACCINES AND VACCINATION
influenza vacc., effectiveness of German polyvalent & Rumanian monovalent vaccines)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSCA, Vasile

The fact that the members of a trade union are spread all over does not constitute and impediment in getting their membership dues. Munca sindic 6 no.5:16-17 My '62.

1. Presedinte al comitetului sindicatului intreprinderii de explorari miniere, Baia Mare.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

K-3

RUMANIA / Forestry. Forest Economy

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58399

Author : Petruscu L.

Inst : Not given

Title : Concerning the Application of the Mehod of Maximum Height in Evaluation Work

Orig Pub: Rev. padurilor, 1957, 72, No 7, 452-455

Abstract: It is shown on the basis of studies of variations in maximum indices and ratios between maximum and average heights in thinned-out plantations of black hybrid poplars that the method of maximum height is not always expedient and thus causes significant errors in the evaluation of the tree reserve. This index can be applied for an evalua-

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

S/169/62/000/012/018/095
D228/D307

AUTHOR: Petruschevskiy, B.A.

TITLE: Geological principles underlying seismic zoning

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 12, 1962, 23, abstract 12A218 (Studii şi cercetări astron. şi seismol., 6, no. 2, 1961, 181-168 (summary in Rum.))

TEXT: Seismic zoning is regarded as a complex geological and geophysical problem. An attempt is made to outline the relationship between present tectonic processes, occurring within the crust at different depths, and the seismic phenomena deriving from these processes. Using the genetic relationship between major geological structures and seismic phenomena, the author considers that it is possible to speak of special features of manifestation of seismic activity in regions of different geological structure. There are possibilities for outlining certain seismic activity patterns peculiar to each of these regions. For the west part of the USSR, relationships between seismic and geological phenomena can be sub-

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, A.

"Fusion and fission of chemical elements in space" by IE.S. Burkser. Reviewed by A. Petrusenko. Geol. zhur. 18 no.1:104-105 '58. (MIRA 11:5)

(Chemical elements)
(Burkser, IE.S.)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

DISHLEVYY, P.S. [Dyshlevyi, P.S.], kand.filosof.nauk; PETRUSENKO, A.M., kand.filosof.nauk

Engels and the present-day natural sciences. Nauka i zhyttia 10 no. 11:49-52 N '60. (MIRA 14:4)
(Science—Philosophy) (Engels, Friedrich, 1820-1895)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

GOLUB, Andrey Matveyevich [Holub, A.M.], kand.khim.nauk; PETRUSENKO, Anatoliy Nikolayevich [Petrusenko, A.M.], kand.filosof.nauk; SOLOMKA, V.P., kand.khim.nauk, glavnyy red.

[D.I.Mendeleev's periodic law is a fundamental law of nature] Periodychnyi zakon D.I.Mendelieieva - fundamental'nyi zakon pryrody. Kyiv, 1960. 56 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.5, no.3-4). (MIRA 13:7)

(Periodic law)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, A.V., polkovnik med.sluzhby; SHERSHEVER, S.M., polkovnik med. sluzhby

Result of the work of a military medical society of a district hospital. (MIRA 13:3)
Voen.-med.zhur. no.10:53-55 O '59.
(SOCIETIES, MEDICAL)
(MILITARY MEDICINE)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, M. V.

VLADIMIROV, A.L., inzhener; PETRUSENKO, M.V., inzhener.

Problems in the over-all mechanization of lumbering operations. Mekh. trud. rab. 11 no.4:21-22 Ap '57. (MLRA 10:6)
(Irkutsk Province--Lumbering--Machinery)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

1. PETRUSENKO, N. I.

2. USSR (600)

4. Agriculture-Experimentation

7. Work of the House of Farm Crops. Dost.sel'khoz. no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, March 19[illegible], Unclassified.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, P.
MIKHAYLOV, M.

Sulfate Soap, Its Conversion ito Tall Oil and Direct Application.
TEKHNIKA (Engineering), 7:38:Oct-Nov 55

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, P.G.

Rupture of the duodenum. Zdrav. Bel. 7 no.12:60-61 D '61.
(MIRA 15:2)

1. Iz khirurgicheskogo otdeleniya (zaveduyushchiy V.I.Prokopovich) Borisovskoy gorodskoy bol'nitsy (glavnyy vrach B.N.Mordvinov).
(DUODENUM--HERNIA)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

USSR / Human and Animal Physiology. Physiology of W[illegible] T
and Sport.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102343.

Author : Petrusenko, R.; Garib'yan, R. B.; Bugaev, K. Ye.
Inst : Rostov on-the-Don State Ped. Institute.
Title : The Significance of Central and Peripheral Vision in Flat Foot-Race for the 60 Meter Distance.

Orig Pub: Sb. stud. nauchn. rabot. Rostovak.-n/D. gos. ped. in-t, 1957, vyp. 1 (22), 89-95.

Abstract: No abstract.

Card 1/1

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, V.

Club of dreamers. Znan.ta pratsia no.9:18-19 S '61. (MIRA 14:8)
(Crimea--Science clubs)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, V.G.; SHOSTYA, I.V.; OKUNEVA, Z.S.; PRIBITKOVA, Yu.V.; FILIMONOV, V.P.; POLIYEKTOVA, A.M.; CHERNISHOVA, N.P.; ISAYCHENKO, M.M., red.; LINKOV, G., tekhn.red.

[Economy of Cherkassy Province; statistical collection] Narodne hospodarstvo Cherkas'koi oblasti; statystychnyi zbirnyk. Cherkasy, 1957. 126 p. (MIRA 12:11)

1. Cherkassy (Province) Statisticheskoye upravleniye. 2. Nachal'nik Statisticheskogo Upravleniya Cherkasskoy oblasti (for Isaychenko). (Cherkassy Province--Statistics)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSENKO, V.I.

[illegible] heavy industry [illegible] economy of the U.S.S.R. Izv. [illegible]. (MIRA 11:7)
(Russia--Economic policy)

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

L 27669-66 EWT(d)/T/EWP(1) IJP(c) GG/BB/JXT(BF)/GD
ACC NR: AT6005580 SOURCE CODE: UR/0000/65/000/000/0245/0258

54
8+1

AUTHOR: Petrusenko, V. K.; Semenovskiy, A. G.

ORG: none

TITLE: Serial correlation-type automatic reader 16

SOURCE: AN UkrSSR. Chitayushchiye avtomaty i raspoznavaniye obrazov (Reading devices and pattern recognition). Kiev, Naukova dumka, 1965, 245-258

TOPIC TAGS: pattern recognition, character recognition, automatic reader

ABSTRACT: Development of an experimental serial reader based on the V. A. Kovalevskiy correlation pattern-recognition method (same issue, p. 46) is reported. The reader keeps a set of standard characters typed on paper; the reflection factors are measured in the course of recognition. Multiplication of the reflection factors of the test character and the standard is performed by projecting a scope-screen image of the test character onto a k-th standard; the light reflected by the standard is proportional to the product of the reflection factors. These three principal units constitute the reader: a control unit, a photoelectric converter, and a computer. The

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ACC NR: AT6005580

control unit comprises a chain of binary counters which, via number-to-voltage converters, control the deflecting systems of two electron-beam tubes (scopes). The photoelectric converter includes three objectives, three photomultipliers, and a two-beam tube. A special analog computer (subtraction averages, normalizing, integration, and digital voltmeter) is used for delivering the recognition results. Testing of the above reader revealed its numerous shortcomings. Hence, another, parallel-type reader was developed instead. Orig. art. has: 5 figures and 13 formulas.

SUB CODE: 09 / SUBM DATE: 31Aug65 / ORIG REF: 005

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

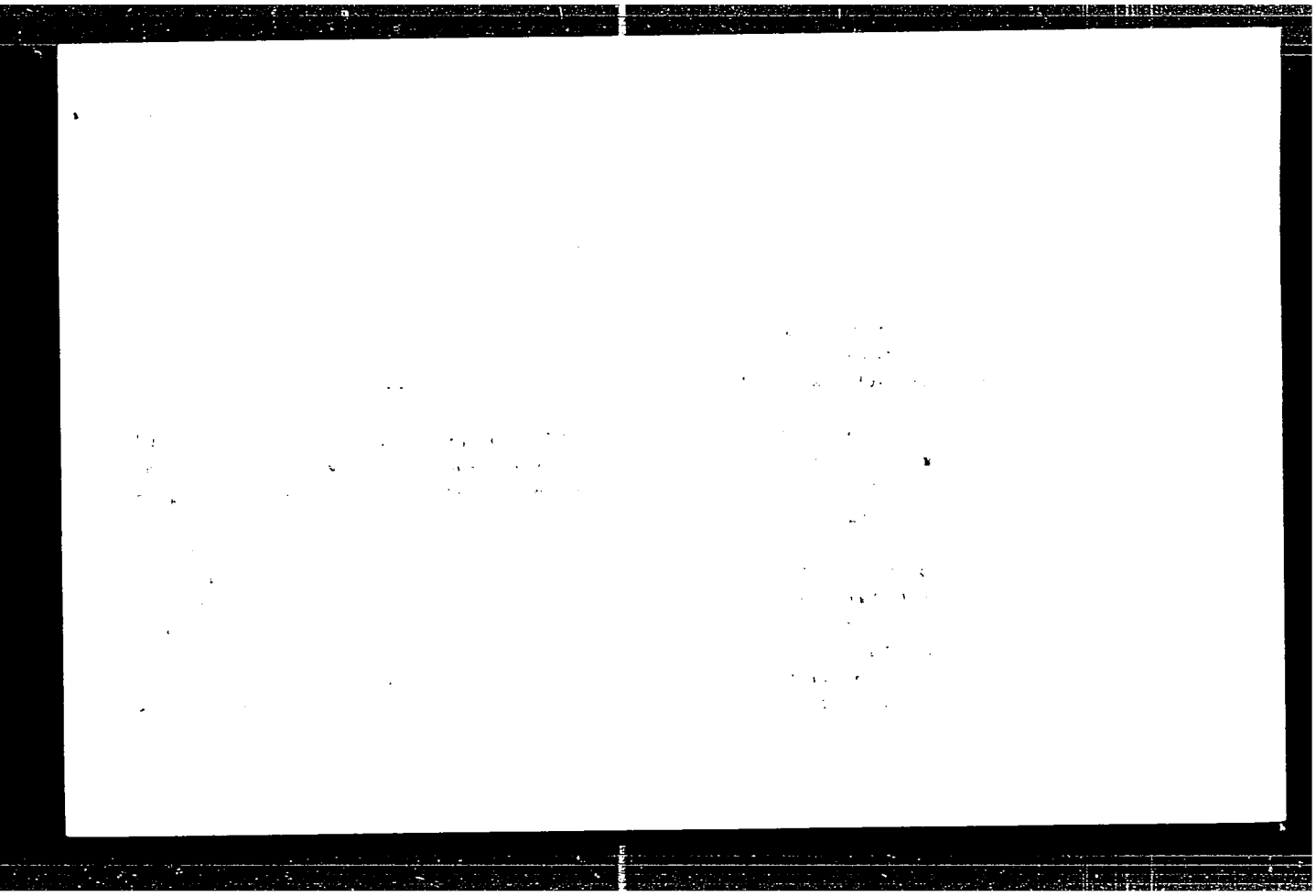
[redacted]ERAIDIS, [redacted]; [redacted], Ye.A.

[redacted] examinations in pemph[redacted].
Vest.derm. i ven. 37 no.5:82-83 My '63.
(MIRA 16:6)

1. Patogistologicheskaya laboratoriya Ukrainskogo nauchno-issledovatel'skogo kozhno-venerologicheskogo instituta (dir. A.I.Pyatikop), Khar'kov. Submitted April 5, 1963.

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8



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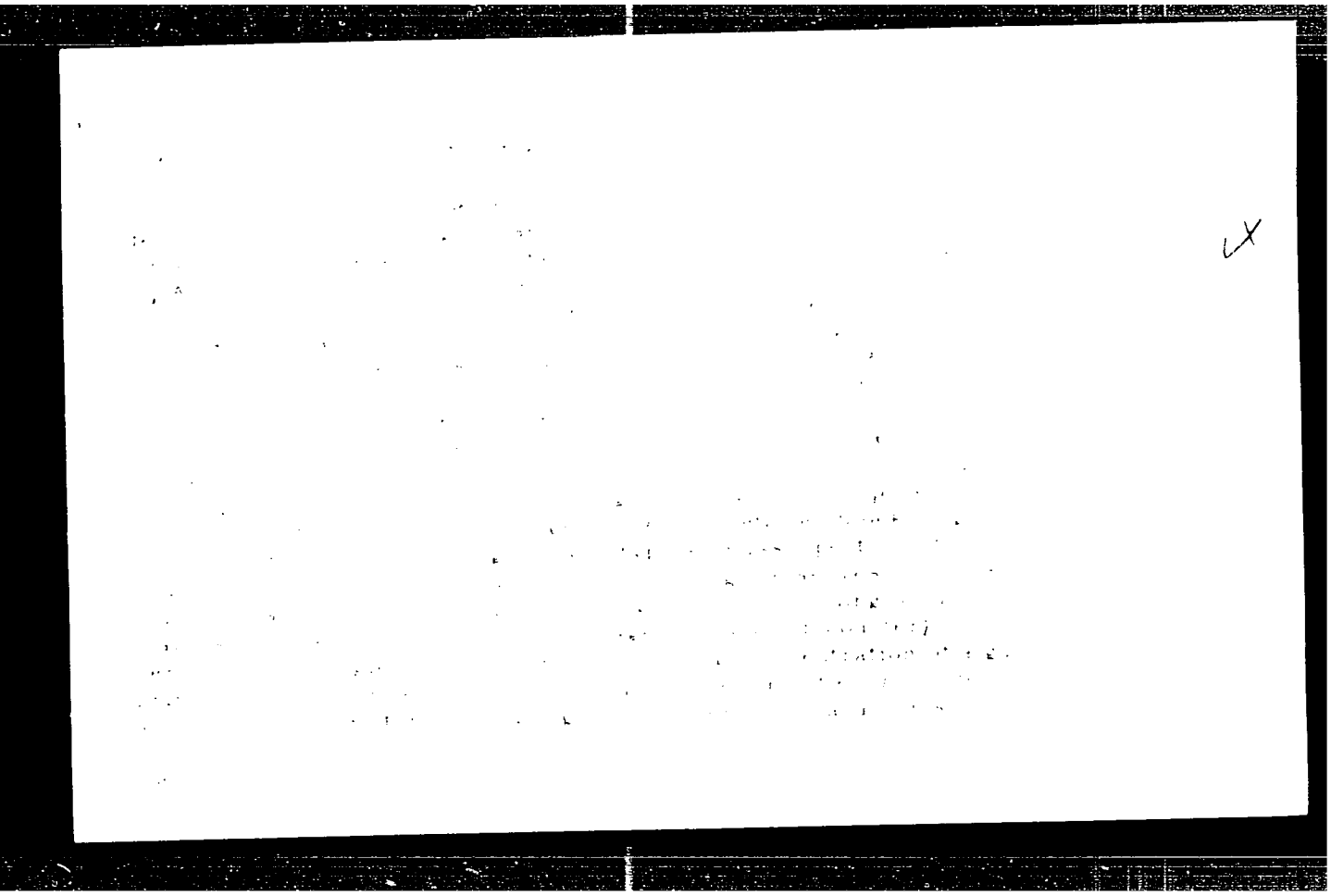

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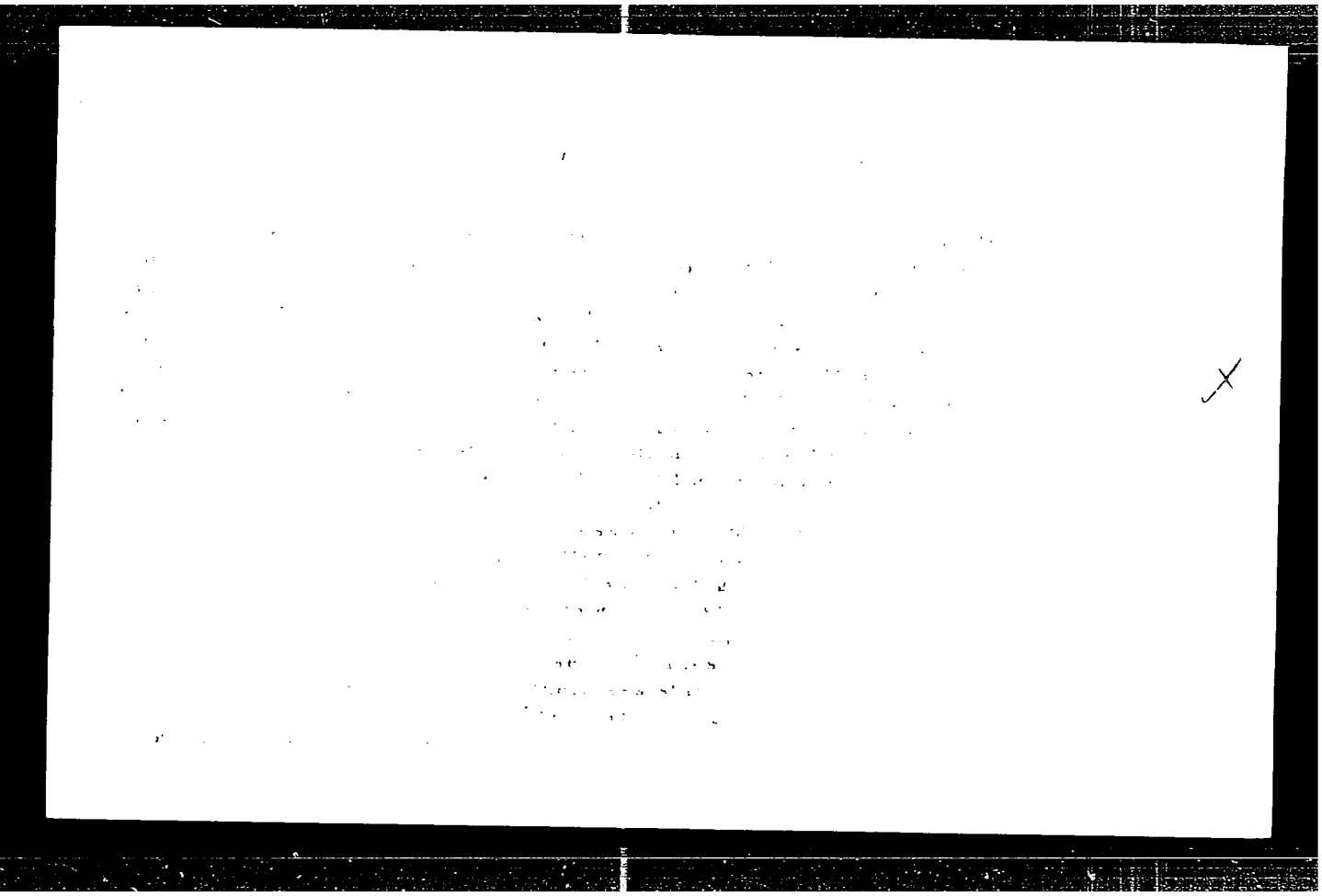

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

L 22880-66 EWT(1)/EWT(m)/ETC(f)/EPF(n)-2/EWG(m)/EWA(h) IJP(c) JD/AT
ACC NR: AP6011913 SOURCE CODE: UR/0141/66/009/002/0287/0291

AUTHOR: Il'in, S. D., Petrusev, S. S., Chernetskiy, A. V.

ORG: Moscow Aviation Institute (Moskovskiy aviatsionnyy institut)

TITLE: Separating device for multifrequency SHF plasma probing

SOURCE: IVUZ. Radiofizika, v. 9, no. 2, 1966, 287-291

TOPIC TAGS: superhigh frequency, frequency selection, plasma probe

ABSTRACT: A power distribution system for simultaneous multifrequency plasma probing is described. It operates over a wide frequency range and is provided with sequential separation of the channels for each frequency. The system (shown in Fig. 1) consists of a single microwave track with frequency separator elements, each

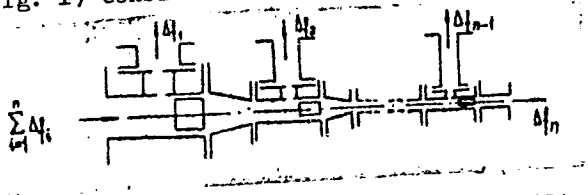

Fig. 1. Microwave signal separator

consisting of one Chebyshev bandpass filter and one high-pass filter. The filter arrangement is such that the lower frequency spectrum is separated and branched out

UDC: 533.9.07

Card 1/2

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of the track as the signal progresses from element to element. Design formulas are given for calculating the necessary filter parameters of a sample system operating on

Table

Filter No.	n_{cr} el/cm^3	P_{out}/P_{in} calc	P_{out}/P_{in} measured	b_s calc	b_s measured
1	1 10	0,96	0,86	30	30
2	1,7 10	0,96	0,80	30	30
3	7 10	0,96	0,76	30	30

the 3-cm wavelength. A number of filters were designed for frequencies covering the range of critical plasma particle concentration from 10^{12} to 7×10^{13}/cm^3. The characteristics for three filters are shown in the accompanying table, where n_{er} is the critical electron concentration in plasma, P_{out}/P_{in} is the output to input power ratio for a filter whose passband is $w_0 \pm 2.5\%$ (w_0, plasma frequency), and b_s is the attenuation of a particular signal in one of two adjacent channels. Orig. art. has: 5 formulas and 5 figures. [BD]

SUB CODE: 09/ SUBM DATE: none/ ORIG REF: 008/ OTH REF: 001/ ATD PRESS: 4234

Card 2/2 MJS

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

L 41758-66 EWT(1)
ACC NR: AP6011912 SOURCE CODE: UR/0141/66/009/002/0279/0286

AUTHOR: Il'in, S. D.; Petrusev, S. S.; Chernetskiy, A. V.

ORG: Moscow Aviation Institute (Moskovskiy aviatsionnyy institut)

TITLE: Method of waveguide discrimination

SOURCE: IVUZ. Radiofizika, v. 9, no. 2, 1966, 279-286

TOPIC TAGS: plasma, gas discharge plasma, frequency discriminator, moving plasma

ABSTRACT: A method of continuous detection of the processes transpiring in a moving plasma or in a plasma with a moving boundary is considered. The plasma boundary is illuminated by a low-power SHF, and then the law of reflected-signal frequency variation (due to the Doppler effect) connected with the speed of motion of the critical-concentration front in the plasma is analyzed: $F_д = \frac{2f_0}{c} v_r = \frac{v_r}{\lambda}$. Isolation of the analog voltage $U_д = f(F_д)$ is carried out by a waveguide SHF discriminator consisting of a hybrid T with asymmetrical plunger-shortcircuited side arms. The

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ACC NR: AP6011912

wide band required to measure velocities 5×10^5 to 10^8 cm per sec is ensured by adjusting the length of the longer arm (which varies the time lag). Design formulas of the discriminator are given. The certainty of measurements is affected by the distortion of sounding-signal phase structure, diffraction, enveloping, and multiple reflections. To overcome these shortcomings, a special-shape narrow sounding beam is recommended whose cross-section is smaller than the areas of the plasma inhomogeneities. An experimental SHF discriminator was tested under static and dynamic conditions at 9650 Mc; a 4-Mc spectrum formed by a sawtooth modulation was discriminated. The frequency discrimination can also be achieved with a plunger-shortcircuited waveguide line containing a detector placed at a calculated point; this results in simpler discriminator construction. Orig. art. has: 7 figures and 25 formulas.

SUB CODE: 09, 20 / SUBM DATE: 17Jun65 / ORIG REF: 006

Card 2/2

APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8"

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

L 21717-66 FSS-2/EWT(1)/ETC(f)/EPF(n)-2/EWC(m) IJP(c) AT/WR
ACC NR: AP6004878 SOURCE CODE: UR/0057/66/036/001/0053/0057

AUTHOR: Il'in,S.D.; Likhachev,V.M.; Petrusev,S.S.;Chernetskiy,A.V.

ORG: none

TITLE: Location of moving plasma bursts from a coaxial injector

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 1, 1966, 53-57

TOPIC TAGS: plasma diagnostics, plasma velocity, Doppler shift, microwave, hydrogen plasma

ABSTRACT: The authors have employed a microwave Doppler shift radar technique to measure the velocities of hydrogen plasma bursts injected at velocities from 3.6×10^6 to 1.5×10^7 cm/sec into a 10 cm diameter 130 cm long glass drift tube by a conical plasma gun powered with a 6 kV 20 μF capacitor bank. The measurements were undertaken to explore the possibilities of the Doppler shift technique. For control purposes the velocities of the plasma bursts were also measured with two microwave transmission cutoff setups located at different positions along the drift tube. Microwaves in the 3 cm range were employed for both the cutoff and the Doppler shift measurements. In the Doppler shift measurements a single dielectric antenna, coupled with a 10 db directional coupler with a directionality of 25 db, was employed for both radiation and reception. In order to determine the influence of the fluctuations of the reflecting surface of the plasma burst on the frequency of the reflected signal, Doppler shift

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L 21717-66
ACC NR: AP6004878

measurements were made at several angles (up to 40°) to the line of flight. Good agreement was obtained among all the velocity measurements, and it is concluded that the Doppler shift technique can be used to measure the velocities of plasma bursts. With further development the method will provide other data, including the time variation of the velocity, the trajector, the direction of flight, and information concerning the internal structure of the plasma burst. The authors thank Professor M.S. Rabinovich and the staff of the laboratory for valuable discussions, and A.N.Pantyushin and G.I.Ochinnikov for assistance with the experiment. Orig. art. has: 1 formula, 5 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 25Jan65/ ORIG REF: 002 OTH REF: 000

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

DMITRIYEVA, Raisa Il'inichna; PETRUSHEV, I.M., red.; TER-STEPANYANTS, M.S., red.; POKOMAREVA, A.A., tekhn.red.

[Profitableness of an industrial enterprise and ways to increase it] Rentabel'nost' promyshlennogo predpriiatiia i puti ee povysheniia. Moskva, Gosplanizdat, 1960. 220 p.
(MIRA 14:2)

(Industrial management) (Profit)

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(United [illegible]. Vol. [illegible], No. [illegible], Apr. [illegible].)

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L 21207-65 EWT(m)/EWP(j)/T Pc-4 RM
ACCESSION NR: AP5001476 S/0190/64/006/012/2122/2126

AUTHOR: Kozlova, A. N.; Petruseva, A. I.; Berestnev, V. A.

TITLE: The deformation of fibers

SOURCE: Vysokomolekulyarnyye soyedineniya, v. 6, no. 12, 1964, 2122-2126

TOPIC TAGS: viscose fiber, stretched fiber, fiber deformation, stress strain curve, fiber elongation

ABSTRACT: The deformation of stretched and unstretched viscose fibers of similar molecular weight was studied as a function of temperature (69-70, 93, 120 and 150C) and stress (7.08, 9.23, 13.26 and 17.69 kg/mm^2). The fibers, obtained from a viscose yarn, were suspended in a glass thermostat and their elongation under load was measured with a cathetometer. The experimental results indicated that deformation proceeds in two principal stages. It can be defined approximately by Arrhenius type equations and illustrated by extrapolated logarithmic plots as shown for deformation vs. temperature in Fig. 1 of the Enclosure. The change in apparent activation energy with stress is also illustrated. The lines for the final stage of deformation converge at the glass transition point. Structural changes in stretched fibers are shown to involve coarse structural elements initially, with modifications on the molecular level only in the later stages. Differences in

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ACCESSION NR: AP5001476

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initial and advanced deformation of unstretched fibers are shown to be similar although less significant. The change in the coarse structure of unstretched fibers involves not only the displacement but also modifications of coarse structural units. "The authors thank V. A. Kargin and G. L. Slonimskiy for guidance in evaluating the results." Orig. art. has: 4 figures, 1 table and 2 formulas.

ASSOCIATION: Nauchno-issledovatel'skiy insitut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

SUBMITTED: 20Jan64 ENCL: 02 SUB CODE: MT

NO REF SOV: 006 OTHER: 001

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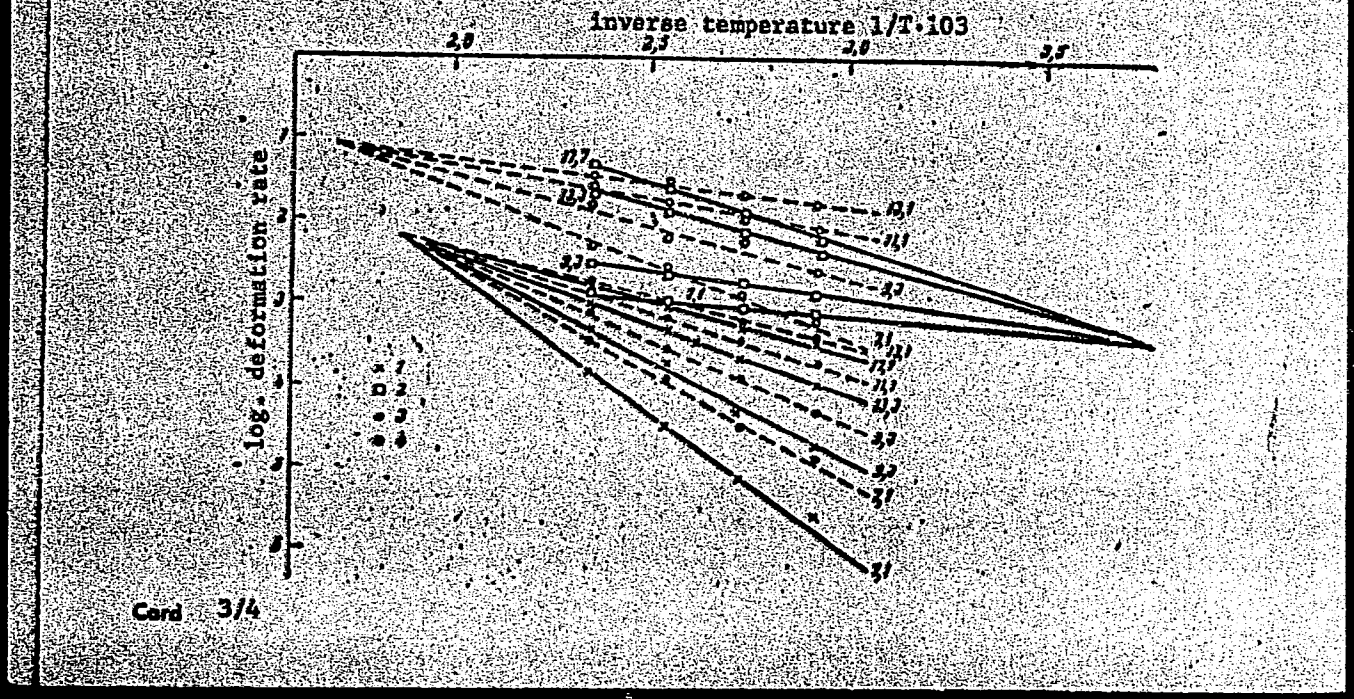
ACCESSION NR: AP5001476 ENCLOSURE: 01



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L 21207-65
ACCESSION NR: AP5001476 ENCLOSURE: 02

Citation to Enclosure 01.

Fig. 1. Dependence of deformation rates on temperature in the initial and final sections of the kinetic curve: 1 - stretched fiber in the final deformation stage; 2 - the same in the initial deformation stage; 3 - unstretched fiber in the final deformation stage; 4 - the same in the final stage of deformation.

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LEKOVIC, Branislav; PERISIC, Slobodan; PETRUSEVIC, Bogoljub; SKENDZIC, Mirjana

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1. Klinika za kozne i venericne bolesti Medicinskog fakulteta u Beogradu.

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GORSKIY, M.P.; ROGOVTSEV, S.Ye., ekon., retsenzent; PETRUSHEV, I.M., inzh., red.; SMIRNOVA, G.V., tekhn. red.

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(Machinery industry—Finance)

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(Turgai Gates--Bauxite)

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PETRUSEVICH, A.I., doktor tekhn. nauk, prof.; GENKIN, M.D., kand. tekhn. nauk; RYZHOV, N.M., inzh.

Effect of burns caused by grinding on the contact strength of cemented and hardened gear wheels. Vest. mashinostr. 45 no.6: 7-13 Je '65. (MIRA 18:6)

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VSEKHSVYATS'KIY, S.K.; PETRUSENKO, A.M.

P.N. Lebedev, outstanding physicist and materialist ("P.N. Lebedev, outstanding physicist and materialist" by A.V. Shugalin. Reviewed by S.K. Vsekhsviats'kyi, A.M. Petrusenko). Visnyk AN URSR 28 no.7: 73-76 Jl '57. (MIRA 11:1)
(Lebedev, Petr Nikolaevich, 1866-1912)

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1. Medicinski fakultet u Beogradu, centralna specijalisticka poliklinika.
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"Design and Construction of Machine Details. Theories of Fatigue Strength at Complex Stresses Condition. Vestnik Mashinostroyeniya, Nos. 7-8 and 9-10 (1944)

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BERUCHEVICH, A. I. and V. I. [illegible]

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Moskva, Mashgiz, 1946. 32[illegible] p. illus., diagrs. (6 fold. in pocket).

Bibliography: p. 319-(320).

(Machining toothed wheels and reduction gears.)

LC: TJ1[illegible].B45

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953.

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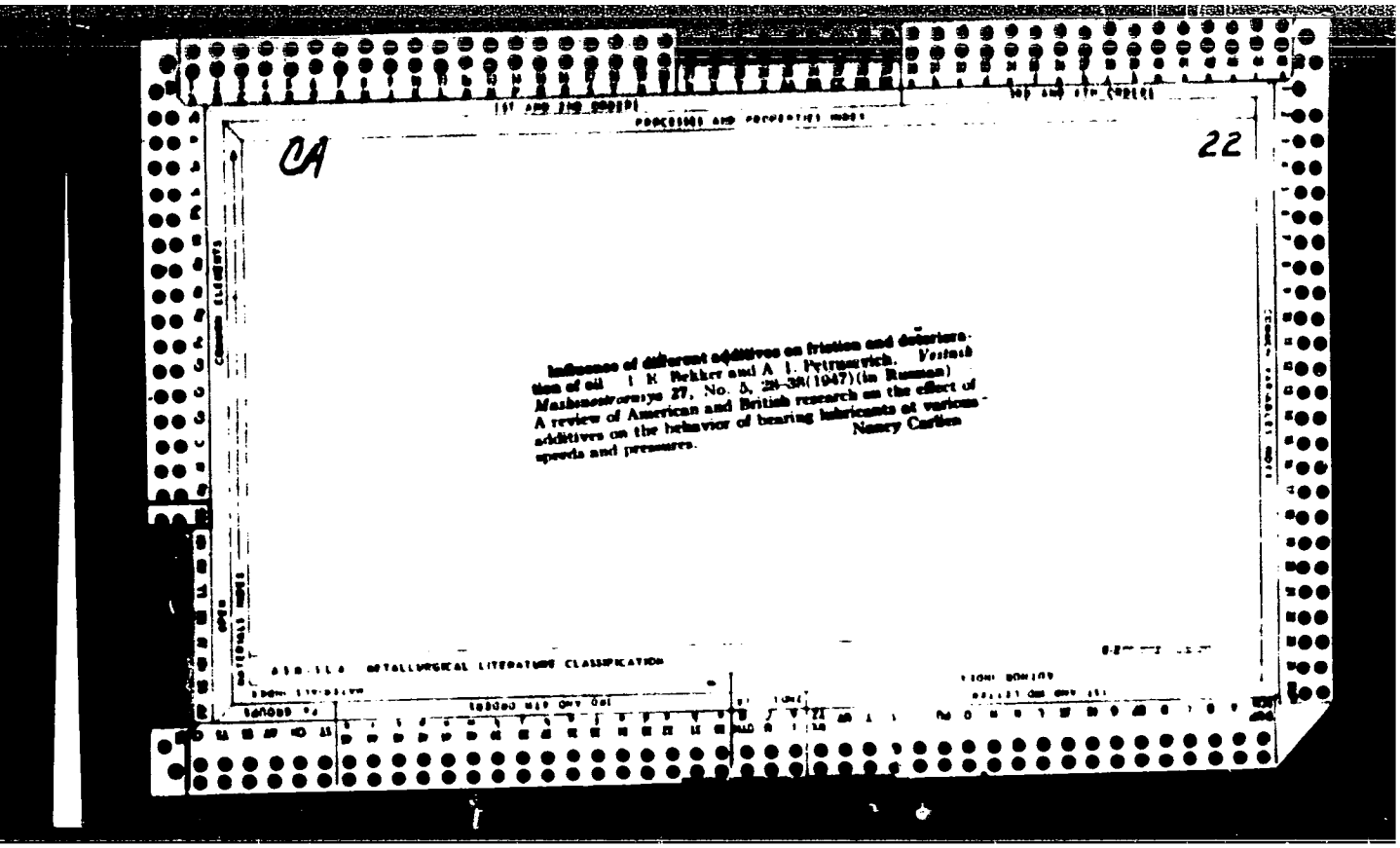

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PETRUSEVICH, A. I. PA 62T23

USSR/Engineering Feb 1948
Machinery - Construction
Gears - Lubrication

"Computations and Construction of Machine Parts," A I. Petrusevich, Engr, 5 pp

"Vest Mash" No 2

Discusses use of antiscoring lubricants for gears, and advantages resulting from use of this type of lubricant in automobile transmissions.

62T23

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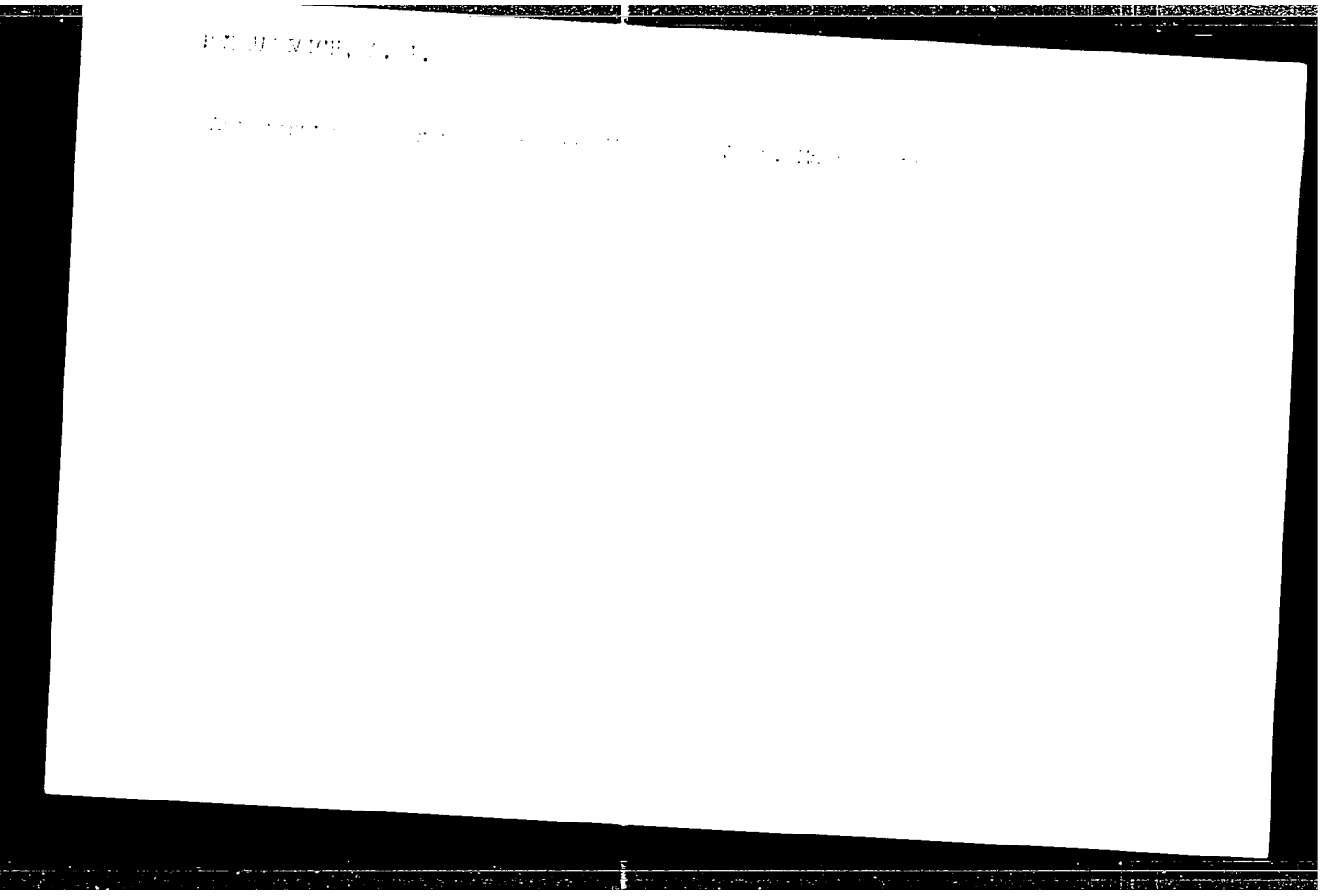

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

USSR/Engineering Nov 48
Gears - Design
Mathematics, Applied

"Dynamic Loading Caused by Local Cumulative Errors in Gear Pitch," A. I. Petrusevich, Engr, 1 p

"Vest Mashinostroy" No 11

Problem has not previously been treated in technical press. Discusses it with aid of some theoretical assumptions. Shows that $u_1 \approx 1{\cdot}2 \quad \Delta\Sigma \quad c_1$, where u_1 = dynamic load, $\Delta\Sigma$ = local cumulative error, and c_1 = specific rigidity.

17/49T33

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PETRUSHEVICH, A. I.

No. 37364 Metody povyshenya dopu kaye mykh nagruz k dlya pryamozubykh
Koles. V sb: Povyshenie prochnost detaley. Moskva-L., 1947,
s. 13 -35.

So: Letop' Zhurnal'nykh Statey, Vol. 7, 1948.

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001240620017-8

PETRUSEVICH, A. I. Doc Tech Sci

Dissertation: "Contact Stresses, Deformations and Contact-Dynamic Theory of Lubrication." 16/6/50

Inst of Machine Science, Acad Sci USSR

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PETRUSEVICH, A. I.

USSR/Scientists - Mechanics, Statics, Oct 50
Lubrication

"Contact Stresses, Deformations and Contact-Hydrodynamic Theory of Lubrication"

Vest Ak Nauk SSSR" No 10, pp 113-116

Briefly reviews doctorate dissertation presented by A. I. Petrusevich, Sr Sci Worker of the Inst of Mech Studies, Acad Sci USSR. Dissertation contains historical review and comments on contemporary state of knowledge in the field of contact

220T109

problems of elasticity theory and contact strength. It gives soln of problem on statics of cylindrical elastic bodies along generatrices with aid of function of stresses.

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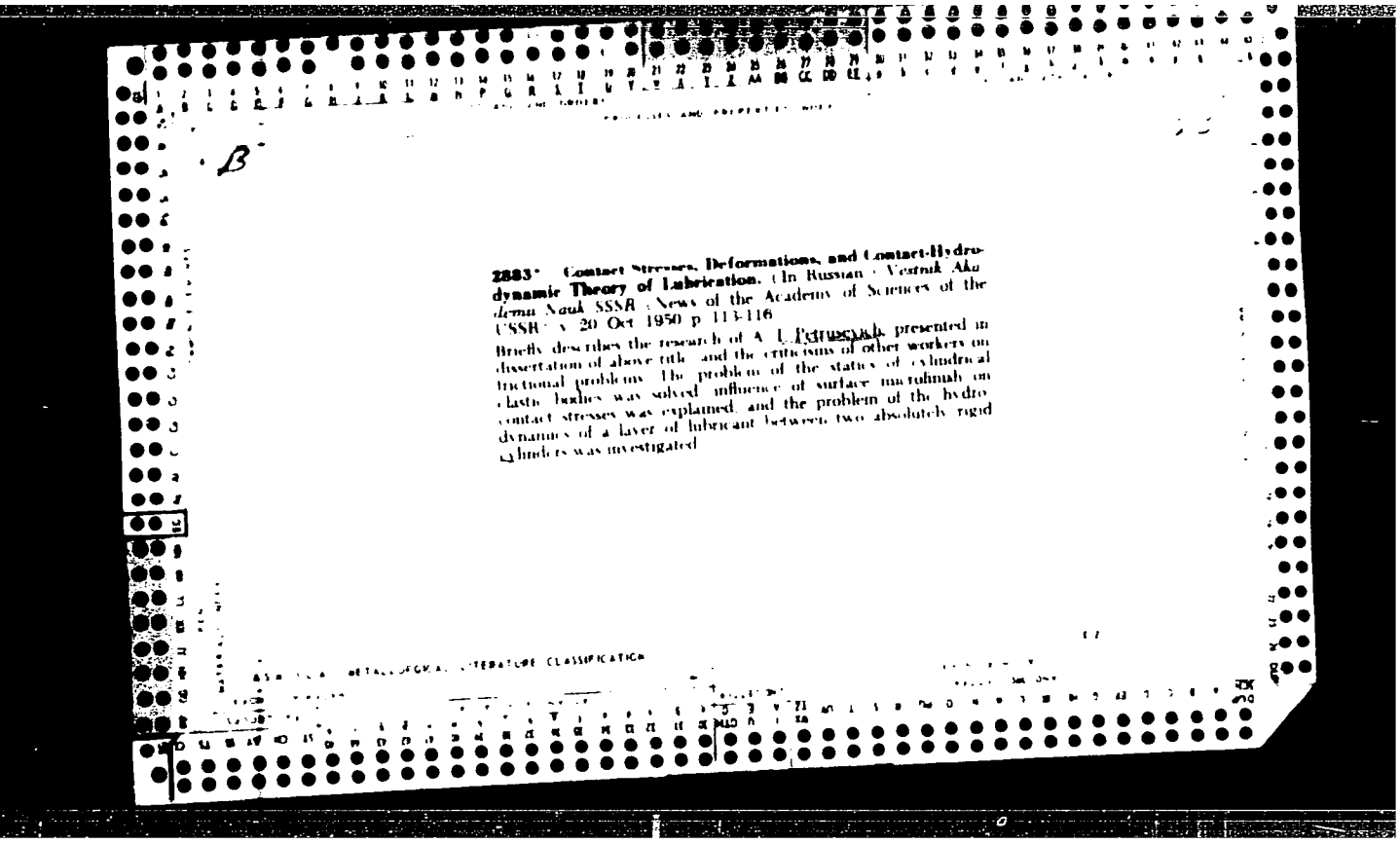

2883* **Contact Stresses, Deformations, and Contact-Hydrodynamic Theory of Lubrication.** (In Russian.) Vestnik Akademii Nauk SSSR [News of the Academy of Sciences of the USSR], v 20 Oct 1950 p 113-116

Briefly describes the research of A. I. Petrusevich presented in dissertation of above title and the criticisms of other workers on frictional problems. The problem of the status of cylindrical elastic bodies was solved, influence of surface irregularities on contact stresses was explained, and the problem of the hydrodynamics of a layer of lubricant between two absolutely rigid cylinders was investigated.

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...I., kandidat tekhnicheskikh nauk; ... professor, doktor tekhnicheskikh nauk, BEY E.[illegible]; ... inzhener, BELYAYEV, ..., kandidat tekhnicheskikh nauk; BIBA... ... kandidat tekhnicheskikh nauk, BOGU...VSK...Y, P Ye., kandidat tekhnicheskikh nauk; BOROVICH, L.S., kandidat tekhnicheskikh nauk; V I...IP ..., professor, doktor tekhnicheskikh nauk; GOMLKA...G Yu.V., inzhener; GRODETSKIY, I.Ye., professor, doktor tekhnicheskikh nauk; GRUD..., V...., professor; DIMENTBERG, ... kandidat tekhnicheskikh nauk, DOSCHATOV, V.V., inzhener, IVA...V A.G., kandidat tekhnicheskikh nauk; KIRSON...I. ..., professor, KOGAN D.... kandidat tekhnicheskikh nauk; ... IYEV A.A., kandidat tekhnicheskikh nauk; KRUTIKOV, I.... kandidat tekhnicheskikh nauk; KUCHUK ...a., kandidat tekhnicheskikh nauk ...VSKOY Ye.V., inzhener, MAZYRIN I.I., inzhener, M...SKIY ..., kandidat tekhnicheskikh nauk MARTY... ..., kandidat tekhnicheskikh nauk; NIS...RG ...Ya., kandidat tekhnicheskikh nauk, NIK...YEV, G.A., professor, doktor tekhnicheskikh nauk, PETRUSEVICH, A.I., doktor tekhnicheskikh nauk; POZDNY... V.S., kandidat tekhnicheskikh nauk; POMAMOREV, ..., professor, doktor tekhnicheskikh nauk, PRIGOROVSKIY, N.I., professor, doktor tekhnicheskikh nauk, PR...IY ..., kandidat tekhnicheskikh nauk, RE...SKI V.D., professor, doktor tekhnicheskikh nauk; SATEL' N.A., professor, doktor tekhnicheskikh nauk, ERENSEN, ...V.; S...CHKIN, M... inzhener, SPITSYN, ..., professor, doktor tekhnicheskikh nauk, ST...IN G.P., kandidat tekhnicheskikh nauk; TAYT... S.A., kandidat tekhnicheskikh nauk; TETEL'BAUM, I.M., kandidat tekhnicheskikh nauk; UMANSKIY ..., professor, doktor tekhnicheskikh nauk, FEOF...YEV, V.I., professor, doktor tekhnicheskikh nauk

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